

## Claims

1. Pipe fitting (1) for pipes (2) exhibiting a coating (5) having a high mechanical and/or chemical resistance, said pipe fitting (1) comprising a first tubular portion (6) adapted to be connected to said pipe (2), to which there is connected a second portion (8), adapted to the connection with another pipe fitting (1), characterised in that at least said first tubular portion (6) exhibits an inside coating (9) made of a material having a high mechanical and/or chemical resistance.

2. Pipe fitting (1) according to claim 1, characterised in that also said second portion (8) exhibits a coating (10) made of said material having a high mechanical and/or chemical resistance.

3. Pipe fitting (1) according to one or more of the previous claims, characterised in that said first tubular portion (6) exhibits elements (11) protruding from its outside surface, adapted to favour the connection of said pipe fitting (1) to said pipe (1).

4. Pipe fitting (1) according to one or more of the previous claims, characterised in that it comprises at least one clamping member (12) of said first tubular portion (6) to said pipe (2).

5. Pipe fitting (1) according to one or more of the previous claims, characterised in that said clamping member (12) exhibits a tubular body.

6. Pipe fitting (1) according to one or more of the previous

claims, characterised in that said tubular body is provided with inside protruding elements (13) adapted to favour the connection of said clamping member (12) to said pipe (2).

7. Pipe fitting (1) according to one or more of the previous claims, characterised in that said clamping member (12) exhibits connection means (14, 15) to at least said first tubular portion (6) of said pipe fitting (1).

8. Pipe fitting (1) according to one or more of the previous claims, characterised in that said connection means (14, 15) comprises an annular portion (14) extending from said tubular body of said clamping member (12), said annular portion (14) exhibiting a free edge inserted into a groove (15) of said first tubular portion (6) of said pipe fitting (1).

9. Pipe fitting (1) according to one or more of the previous claims, characterised in that at least said first tubular portion (6) is inserted into a pipe (2) which exhibits an inside layer (5) made of a material resistant to chemical and/or acid and/or abrasive and/or wearing products.

10. Pipe fitting (1) according to claim 9, characterised in that said inside coating (9) of said first tubular portion (6) is made of the same material as said inside layer (5) of said pipe (2).

11. Pipe fitting (1) according to claim 9 or 10, characterised in that it comprises a sealing element (16) at least between said first tubular portion (6) of said pipe

fitting (1) and said inside layer (5) of said pipe (2).

12. Pipe fitting (1) according to one or more of claims from 9 to 11, characterised in that it comprises an adhesive layer (17) at least between said clamping member (12) and said pipe (2).

13. Method for installing a pipe fitting (1) for pipes (2) exhibiting a coating (5) having a high mechanical and/or chemical resistance, characterised in that it comprises a first step wherein at least one end portion of said inside layer (5) of said pipes (2) is removed so as to obtain a housing (7) of a tubular portion (6) of said pipe fitting (1), also exhibiting a high mechanical and/or chemical resistance, and a second step wherein said first tubular portion (6) of said pipe fitting (1) is locked into said housing (7).

14. Method according to claim 13, characterised in that it comprises a third step wherein a clamping member (12) is connected to at least said pipe (2).

15. Pipe fitting (1) for pipes (2) exhibiting a coating (5) having a high mechanical and/or chemical resistance, and method for its installation, as described and claimed.

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